Owensboro, Kentucky Area Ozone Maintenance Plan

Effective Redesignation Date: 59 FR 55053, 11/3/94; 63 FR 46894, 9/3/98

Background of the Plan: On November 13, 1992, the Commonwealth of Kentucky through the Natural Resources and Environmental Protection Cabinet (Cabinet), submitted a maintenance plan and a request to redesignate the Owensboro area from nonattainment to attainment for the 1-hour ozone standard. The marginal nonattainment areas include the following counties: Daviess and a portion of Hancock. On November 15, 1990, the Clean Air Act Amendments of 1990 (CAA) were enacted. (Pub. L. 101-549, 104 Stat. 2399, codified at 42 U.S.C. 7401-7671q). Under section 107(d)(1), in conjunction with the Governor of Kentucky, EPA designated the Owensboro and Edmonson County areas as nonattainment because the areas violated the ozone standard during the period from 1987 through 1989 (See 56 FR56694 (Nov. 6, 1991) and 57 FR 56762 (Nov. 30, 1992), codified at 40 CFR81.318.) EPA approved an update for the Owensboro maintenance plan on April 16, 1998 to correct/revise the original motor vehicle emissions budgets (MVEBs) approved by EPA. EPA's approval became effective on November 2, 1998. The revised MVEBs were developed with MOBILE5b and are being used for transportation conformity purposes in the Owensboro area. On April 9, 2002, EPA approved a clarification establishing the "budget" year for NOx and VOC is 2004.

Summary of the Plan: This State Implementation Plan (SIP) relies on an attainment level of emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx) to maintain the ozone standard through a combination of control measures. These measures include both stationary and mobile source controls. The state agreed to periodically update the emissions inventory to ensure maintenance of the standard and to implement certain contingency measures if the emissions level is exceeded or the standard is violated. The Owensboro marginal nonattainment area is expected to achieve a 5.31 percent reduction in VOCs and a 3.04 percent reduction in NOx by year 2004.

Control Measures: A variety of control measures will be utilized including the following:

- Emissions Inventory
- Reasonably Available Control Technology (RACT)
- Emissions Statements
- New Source Review (NSR)

This area is subject to the Federal Reid Vapor Pressure requirements. For a listing of the exact requirements please refer to http://www.epa.gov/otaq/volatility.htm

Contingency Measures: The plan contains a contingency to implement RACT on existing major sources in the area where the violation occurred within ninety (90) days. RACT was not required for this nonattainment area because it was designated as a marginal nonattainment area pursuant to the CAA. However, Kentucky chose to apply RACT on all major sources which commenced on or after the effective date of a particular RACT rule.

Motor Vehicle Emissions Budgets: The applicable MVEB for Owensboro for VOCs beginning 2004 is 2.04 tons/day. The applicable MVEB for Owensboro for NOx beginning 2004 is 1.23 tons/day.

Emission Reductions: On November 13, 1992, the Commonwealth of Kentucky submitted comprehensive inventories of VOC, NOx, and CO emissions for the Paducah marginal nonattainment area. The inventories included biogenic, area, stationary, and mobile sources using 1990 as the base year for calculations to demonstrate maintenance. The area wide VOC emissions inventory for baseline year 1990 was 31.26 tons/day with a total reduction of 5.31 percent by 2004. The area wide NOx emissions inventory for baseline year 1990 was 30.06 tons/day with a total reduction of 3.04 percent by 2004. The Owensboro/Edmonson County area marginal nonattainment was redesignated

attainment on January 3, 1995, and will achieve further reductions through the year 2002.

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Federal Register: 04/9/2002 65FR 17007 Clarification of Maintenance Plan